Amendments to the Claims

The listing of claims will replace all prior versions and listings of claims in the application.

1-22. (cancelled)

23. (currently amended) An isolated polynucleotide ~~comprising a nucleic acid at least 90% identical to a reference nucleic acid~~ consisting of at least 30 contiguous nucleotides of SEQ ID NO:3.

24. (cancelled)

25. (cancelled)

26. (previously presented) The isolated polynucleotide of claim 23, further comprising a heterologous polynucleotide.

27. (previously presented) A vector comprising the isolated polynucleotide of claim 23.

28. (previously presented) A host cell comprising the isolated polynucleotide of claim 23.

29. (previously presented) The host cell of claim 28, wherein said isolated polynucleotide is operably associated with a heterologous regulatory sequence.

30. (withdrawn) A method of using the host cell of claim 29 to screen for ligand binding, comprising culturing said host cell under conditions such that a polypeptide encoded by said polynucleotide is expressed, contacting said polypeptide with said ligand, and detecting binding of said ligand to said polypeptide.

31. (previously presented) A method of producing a polypeptide comprising culturing the host cell of claim 29 under conditions such that said polypeptide is expressed, and recovering said polypeptide.

32. (withdrawn) A polypeptide produced by the method of claim 31.

33. (currently amended) An isolated polynucleotide ~~comprising a nucleic acid at least 90% identical to a reference nucleic acid~~ consisting of at least 50 contiguous nucleotides of SEQ ID NO:3.

34. (cancelled)

35. (cancelled)

36. (previously presented) The isolated polynucleotide of claim 33, further comprising a heterologous polynucleotide.

37. (previously presented) A vector comprising the isolated polynucleotide of claim 33.

38. (previously presented) A host cell comprising the isolated polynucleotide of claim 33.

39. (previously presented) The host cell of claim 38, wherein said isolated polynucleotide is operably associated with a heterologous regulatory sequence.

40. (withdrawn) A method of using the host cell of claim 39 to screen for ligand binding, comprising culturing said host cell under conditions such that a polypeptide encoded by said polynucleotide is expressed, contacting said polypeptide with said ligand, and detecting binding of said ligand to said polypeptide.

41. (previously presented) A method of producing a polypeptide comprising culturing the host cell of claim 39 under conditions such that said polypeptide is expressed, and recovering said polypeptide.

42. (withdrawn) A polypeptide produced by the method of claim 41.

43. (currently amended) An isolated polynucleotide ~~comprising a nucleic acid at least 90% identical to a reference nucleic acid~~ consisting of at least 150 contiguous nucleotides of SEQ ID NO:3.

44. (cancelled)

45. (cancelled)

46. (previously presented) The isolated polynucleotide of claim 43, further comprising a heterologous polynucleotide.

47. (previously presented) A vector comprising the isolated polynucleotide of claim 43.

48. (previously presented) A host cell comprising the isolated polynucleotide of claim 43.

49. (previously presented) The host cell of claim 48, wherein said isolated polynucleotide is operably associated with a heterologous regulatory sequence.

50. (withdrawn) A method of using the host cell of claim 49 to screen for ligand binding, comprising culturing said host cell under conditions such that a

polypeptide encoded by said polynucleotide is expressed, contacting said polypeptide with said ligand, and detecting binding of said ligand to said polypeptide.

51. (previously presented) A method of producing a polypeptide comprising culturing the host cell of claim 49 under conditions such that said polypeptide is expressed, and recovering said polypeptide.

52. (withdrawn) A polypeptide produced by the method of claim 51.

53. (currently amended) An isolated polynucleotide which encodes a polypeptide ~~comprising a nucleic acid at least 90% identical to a reference nucleic acid~~ consisting of at least 30 contiguous ~~nucleotides~~ amino acids of SEQ ID NO:4.

54-57. (cancelled)

58. (previously presented) The isolated polynucleotide of claim 53, further comprising a heterologous polynucleotide.

59. (previously presented) A vector comprising the isolated polynucleotide of claim 53.

60. (previously presented) A host cell comprising the isolated polynucleotide of claim 53.

61. (previously presented) The host cell of claim 60, wherein said isolated polynucleotide is operably associated with a heterologous regulatory sequence.

62. (withdrawn) A method of using the host cell of claim 61 to screen for ligand binding, comprising culturing said host cell under conditions such that a polypeptide encoded by said polynucleotide is expressed, contacting said polypeptide with said ligand, and detecting binding of said ligand to said polypeptide.

63. (previously presented) A method of producing a polypeptide comprising culturing the host cell of claim 61 under conditions such that said polypeptide is expressed, and recovering said polypeptide.

64. (withdrawn) A polypeptide produced by the method of claim 63.

65. (currently amended) An isolated polynucleotide which encodes a polypeptide ~~comprising a nucleic acid at least 90% identical to a reference nucleic acid encoding~~ consisting of at least 50 contiguous amino acids of SEQ ID NO:4.

66-69. (cancelled)

70. (previously presented) The isolated polynucleotide of claim 65, further comprising a heterologous polynucleotide.

71. (previously presented) A vector comprising the isolated polynucleotide of claim 65.

72. (previously presented) A host cell comprising the isolated polynucleotide of claim 65.

73. (previously presented) The host cell of claim 72, wherein said isolated polynucleotide is operably associated with a heterologous regulatory sequence..

74. (withdrawn) A method of using the host cell of claim 73 to screen for ligand binding, comprising culturing said host cell under conditions such that a polypeptide encoded by said polynucleotide is expressed, contacting said polypeptide with said ligand, and detecting binding of said ligand to said polypeptide.

75. (previously presented) A method of producing a polypeptide comprising culturing the host cell of claim 73 under conditions such that said polypeptide is expressed, and recovering said polypeptide.

76. (withdrawn) A polypeptide produced by the method of claim 75.

77-92. (cancelled)

93. (New) An isolated polynucleotide which encodes a polypeptide consisting of at least 30 contiguous amino acids encoded by the cDNA contained in ATCC Deposit No. 209004.

94. (New) The isolated polynucleotide of claim 93, further comprising a heterologous polynucleotide.

95. (New) A vector comprising the isolated polynucleotide of claim 93.

96. (New) A host cell comprising the isolated polynucleotide of claim 93.

97. (New) The host cell of claim 96, wherein said isolated polynucleotide is operably associated with a heterologous regulatory sequence.

98. (New) A method of producing a polypeptide comprising culturing the host cell of claim 97 under conditions such that said polypeptide is expressed, and recovering said polypeptide.

99. (New) An isolated polynucleotide which encodes a polypeptide consisting of at least 50 contiguous amino acids encoded by the cDNA contained in ATCC Deposit No. 209004.

100. (New) The isolated polynucleotide of claim 99, further comprising a heterologous polynucleotide.

101. (New) A vector comprising the isolated polynucleotide of claim 99.

102. (New) A host cell comprising the isolated polynucleotide of claim 99.

103. (New) The host cell of claim 102, wherein said isolated polynucleotide is operably associated with a heterologous regulatory sequence.

104. (New) A method of producing a polypeptide comprising culturing the host cell of claim 103 under conditions such that said polypeptide is expressed, and recovering said polypeptide.

105. (New) An isolated polynucleotide comprising a nucleic acid which encodes the polypeptide encoded by the cDNA contained in ATCC Deposit No. 209004.

106. (New) The isolated polynucleotide of claim 105, further comprising a heterologous polynucleotide.

107. (New) A vector comprising the isolated polynucleotide of claim 105.

108. (New) A host cell comprising the isolated polynucleotide of claim 105.

109. (New) The host cell of claim 108, wherein said isolated polynucleotide is operably associated with a heterologous regulatory sequence.

110. (New) A method of producing a polypeptide comprising culturing the host cell of claim 109 under conditions such that said polypeptide is expressed, and recovering said polypeptide.